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(54) Title: **PHYSIOLOGICAL MEDIUM FOR PERFUSING, PRESERVING AND STORING ISOLATED CELL, TISSUE AND ORGAN SAMPLES**

(57) Abstract: A physiological liquid medium is provided having the basic, synergistic components to allow its universal application in preserving cellular and functional integrity *in vitro* of different cell, tissue and organ types isolated from different mammalian species. The medium comprises an aqueous solution in sterile purified water of: i) a salt component comprising: a) from 100 to 150 mmol/L of sodium ions, b) from 2.5 to 6.2 mmol/L of potassium ions, c) from 1.0 to 2.5 mmol/L of calcium ions, d) from 0.4 to 25 mmol/L of magnesium ions, and e) from 96 to 126 mmol/L of chloride ions; ii) a buffer component comprising: f) from 21 to 27 mmol/L of bicarbonate ions, and g) from 1 to 12 mmol/L of TES, MOPS or BES; iii) a substrate component comprising: h) 2 to 11 mmol/L of glucose, i) 50 to 150 μ mol/L of glycerol and j) 7 to 15 μ mol/L of choline; iv) an amino acid component comprising: k) 5 to 400 μ mol/L of glutamate, l) 5 to 200 μ mol/L of aspartate and m) 100 to 2000 μ mol/L of glutamine; v) a co-enzyme component comprising: n) 1 to 120 nmol/L of thiamine cocarboxylase; vi) a vitaminoid component comprising: o) 40 to 70 μ mol/L of D- or DL- or L-carnitine; vii) a protein component comprising: p) 5 to 200 m I.U./L of porcine or human insulin.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 98 04127 A (STANKO RONALD T) 5 February 1998 (1998-02-05) cited in the application the whole document page 9	1-14
A	EP 0 627 161 A (SIGMA TAU IND FARMACEUTI) 7 December 1994 (1994-12-07) the whole document	1-14
A	US 5 110 722 A (ANDEREGG KATHERINE A ET AL) 5 May 1992 (1992-05-05) the whole document table II	1-14
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p> DATABASE WPI Week 199251 Derwent Publications Ltd., London, GB; AN 1992-420365 XP002167149 & JP 04 316483 A (NIPPON SUISAN KAISHA LTD AND NISSUI PHARM CO LTD), 6 November 1992 (1992-11-06) abstract ----- </p>	1-14

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Information on patent family members

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